

Figure 1(b)

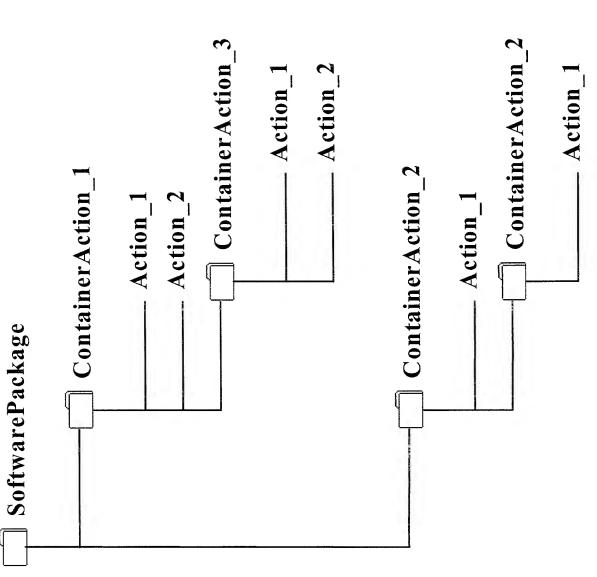
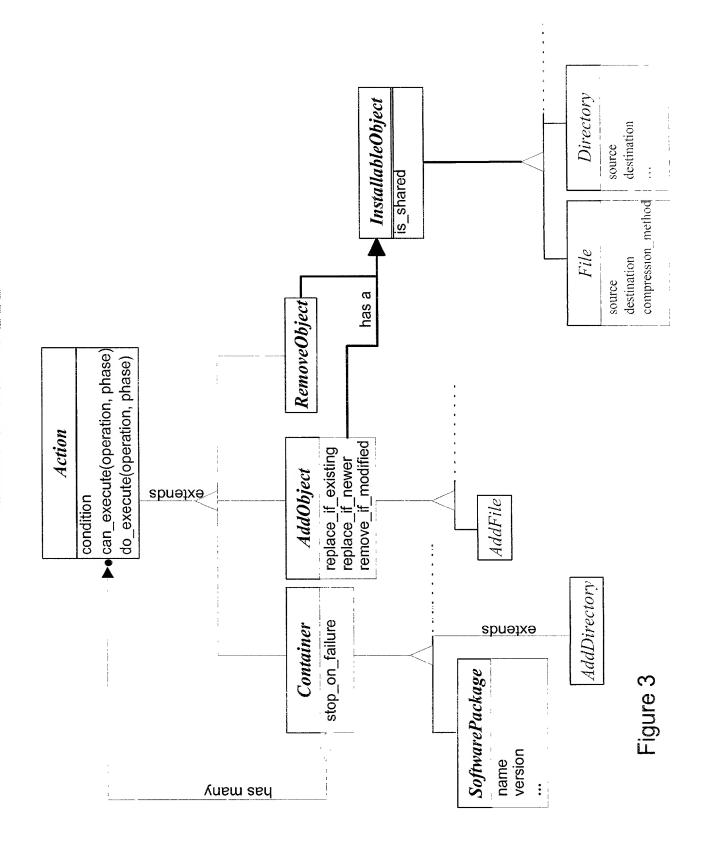
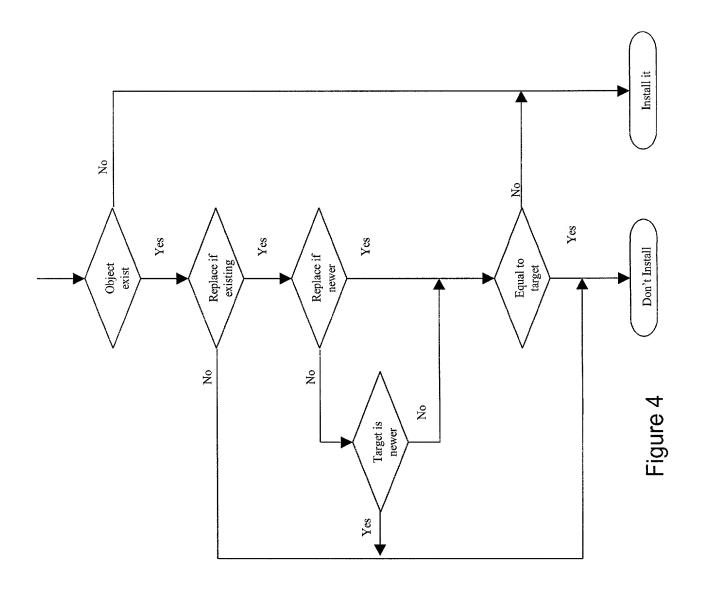
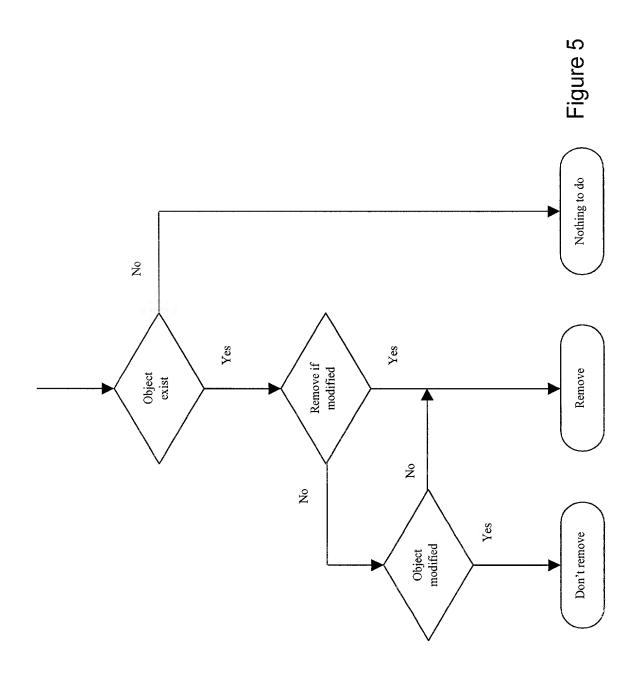
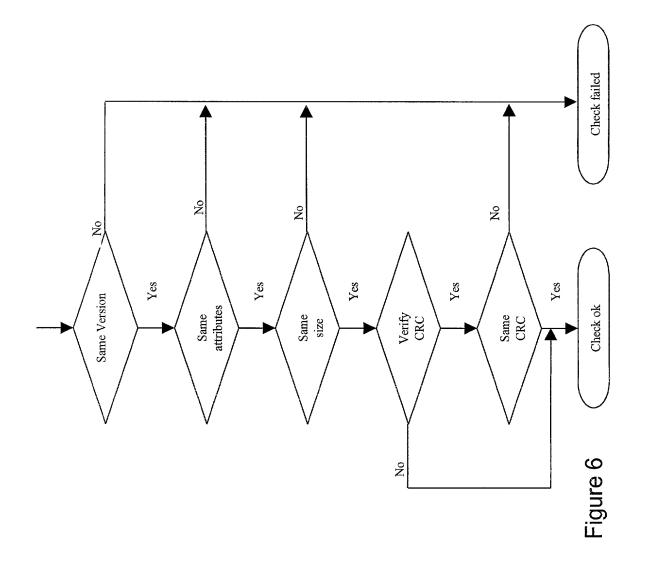


Figure 2









		······································							
Registry Key and Value	Shell Folder and Shortcut	INI file Section and Item	NT Service	Profile Item	Desktop Object, Folder,	Program, Shadow	Directory and File	Text file line, command, token	Symbolic link
Object related actions									

Restart	Check disk space
System actions and Checks	

Program actions	Execute user program
	Execute MS Setup program
	Execute InstallShield program
	Execute CID Program

Figure 7

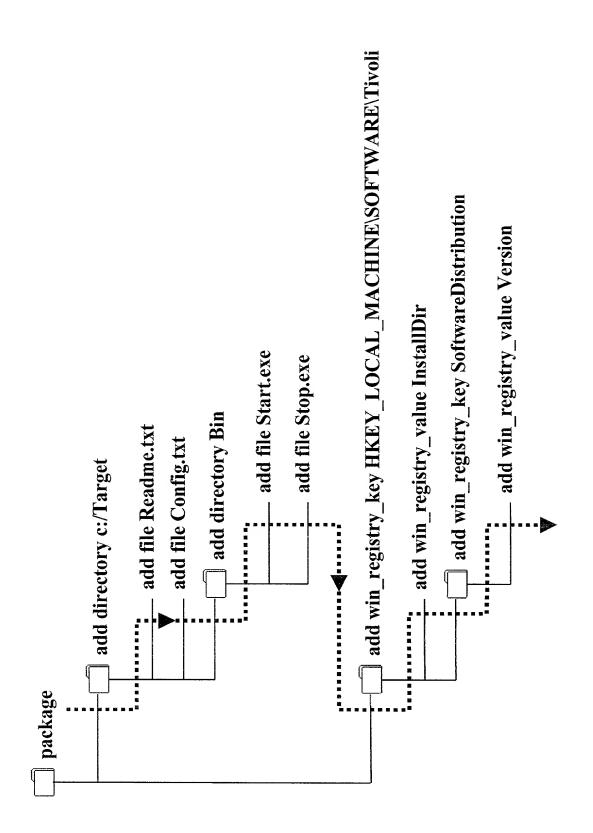


Figure 8

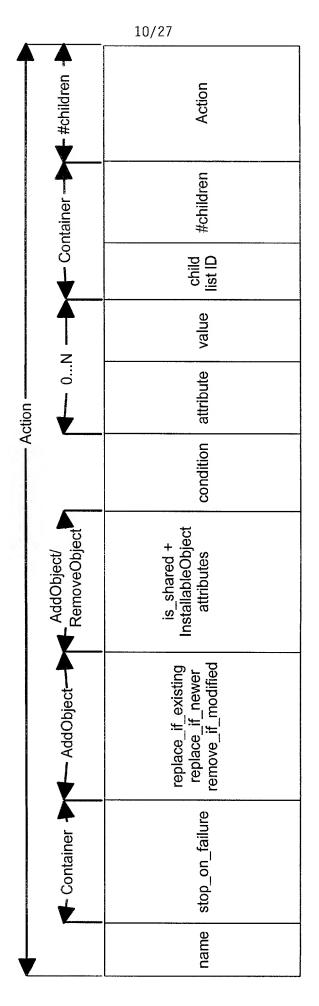


Figure 9

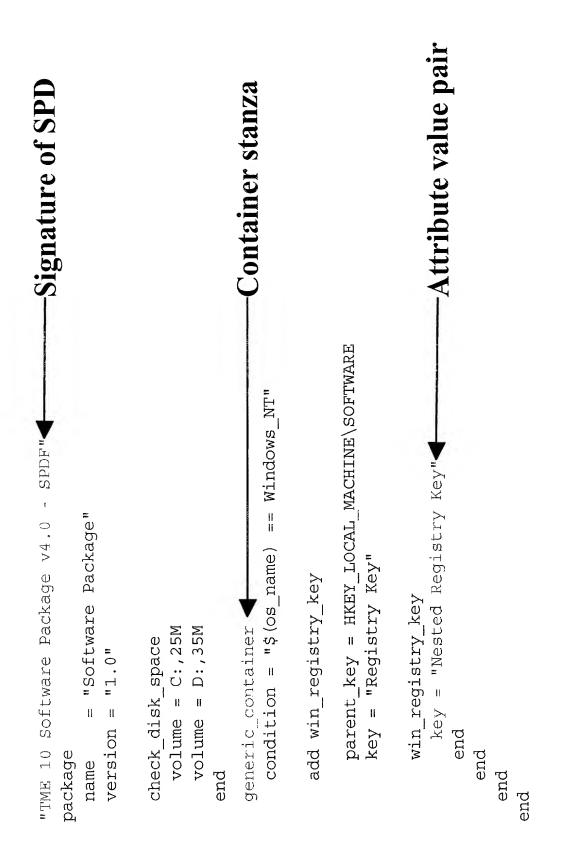
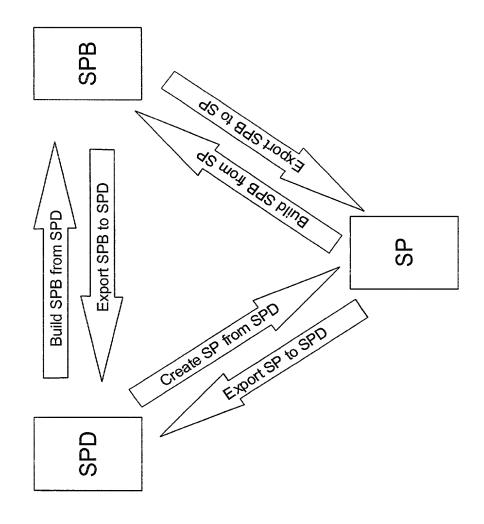


Figure 10

Figure 11



<pre>c:/Winnt/System32/ \$(system_dir)</pre>	MyApp.DLL	c:/MyApp \$(target_dir)
11 11	II	
add directory location destination	file name end end	add directory location destination descend_dirs end
<pre>= c:/Winnt/System32/ = c:/Winnt/System32/</pre>	= MyApp.DLL	= c:/MyApp = c:/MyApp = y
add directory location destination	file name end	add directory location destination descend_dirs end

Figure 12(a)

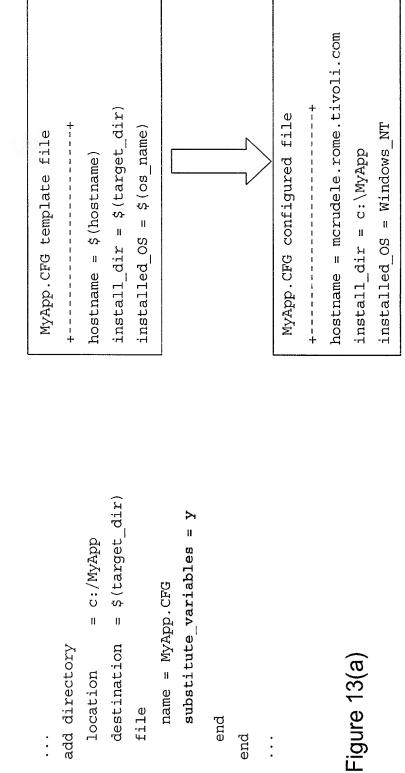
Figure 12(c)

```
condition = "$(os_name) LIKE 'Win*'"
                                        = c:/winnt/system32
                                                              = $(system_dir)
                                                                                                            name = MyApp.DLL
                                                               destination
add directory
                                        location
                                                                                     file
```

```
condition = "$(os_name) == SunOS OR $(os_name) == AIX"
                                  = $ (home_path)
               = c:/unix/
                                                                       = MyApp.a
                                  destination
                location
                                                                       name
                                                   file
                                                                                        end
                                                                                                          end
```

add directory

end



file

end

end

Figure 13(b)

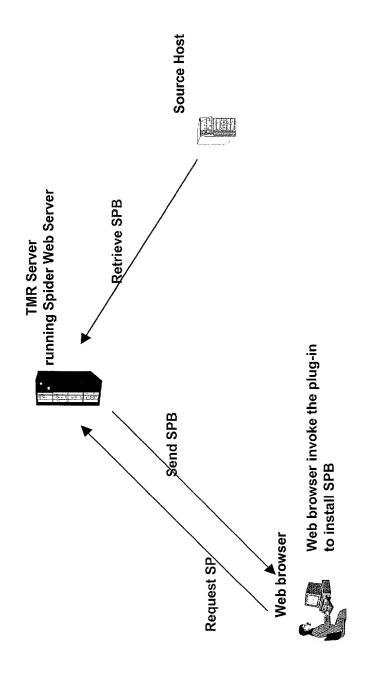


Figure 14

wdcrtsp	Create a SPB file from a SPD file
wdexptsp	Export a SPB file into SPD file
qdsplqpw	Build a SPB file from a SP
autopack	Run AutoPack snapshots/differences
wdinstsp	Install a SPB
wdrmvsp	Remove a SP
wdcmmtsp	Commit a SP
dsopunpm	Undo a SP Install/Remove
wdacptsp	Accept an undoable Install/Remove
wdversp	Verify the state of a SP

Figure 15

	wimpspo	Associate a Software Package to a SPO
	wconvspo	Convert the format of a SPO
	wexpspo	Export a SPO into SPD file
_>	wldsp	Loads SP on one or more Depots
_>	wuldsp	UnLoad a SP from one or more Depots
	winstsp	Install a SP
	wremovsp	Remove a SP
	wcommtsp	Commit a SP
>	wundosp	Undo a SP Install/Remove
>	waccptsp	Accept an undoable Install/Remove
	wversp	Verify the state of a SP

Figure 16

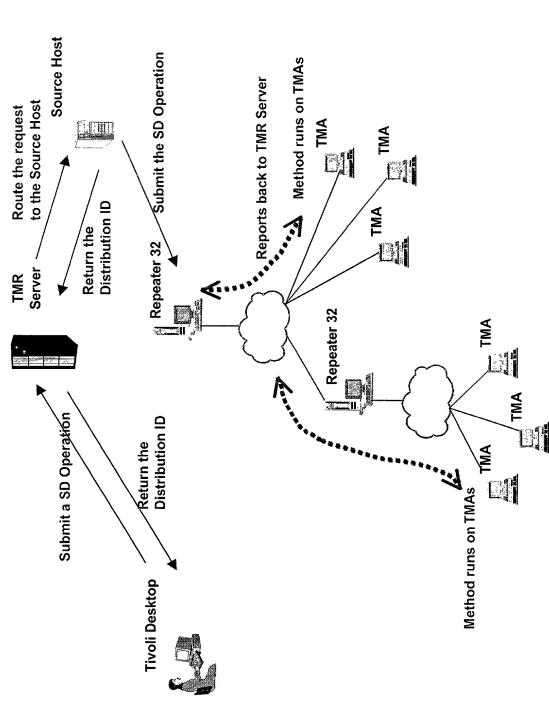


Figure 17

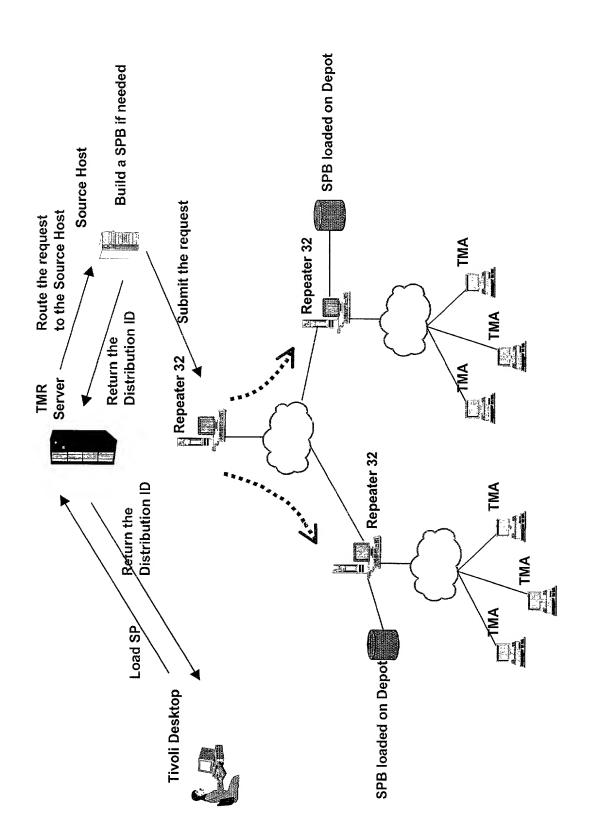


Figure 18

	Install	Install Remov Accept Undo rollBack Commit Verify	Accept	Undo	rollBack	Commit	Verify
		Φ					
transactional	×	×		×			
undoable	×	×					
undoable in	×	×					
transactional							
transactional & X	×	×					
undoable							

Figure 19

Operation	State	Undo state	Reboot state	Flag
Install	P repared	P repared	Re B oot requested	Changing
Remove	Committed	U ndoable	t	In E rror
		Restored		1
		ı		

IC--- means that an Install has been committed

ICU-- means that an Install has been committed and can be undone

IP-BC means that an Install has been prepared and it will be committed

during the next reboot

IC--E means that an Install has been committed but the SP is in error, so RCU-- means that a Remove has been committed but it can be undone

the application may not work properly

Figure 20

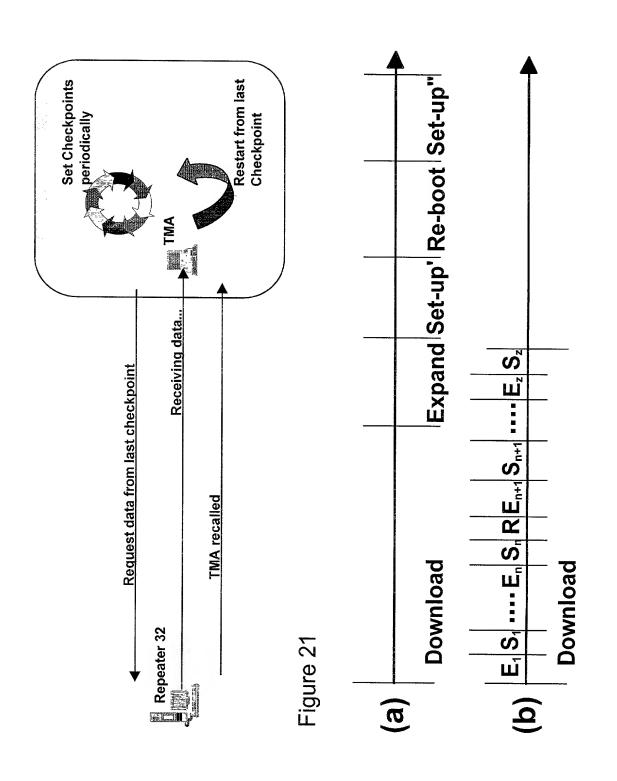
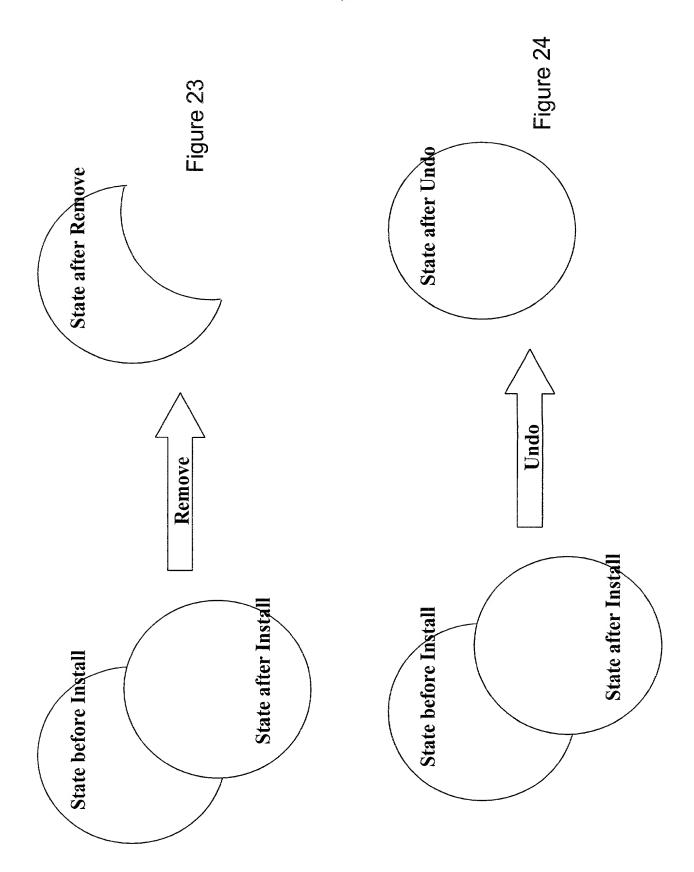


Figure 22



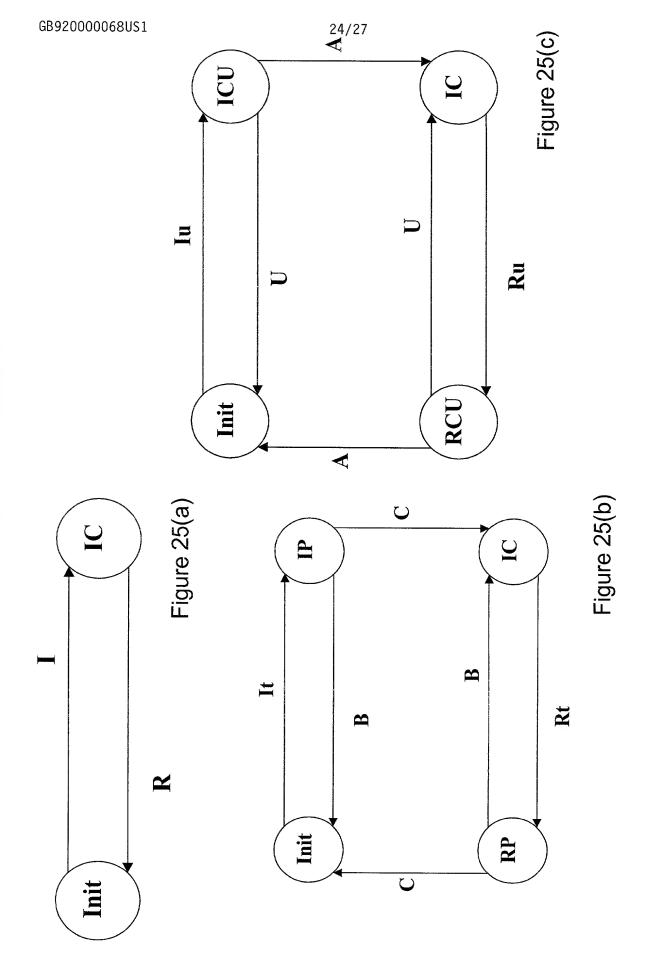


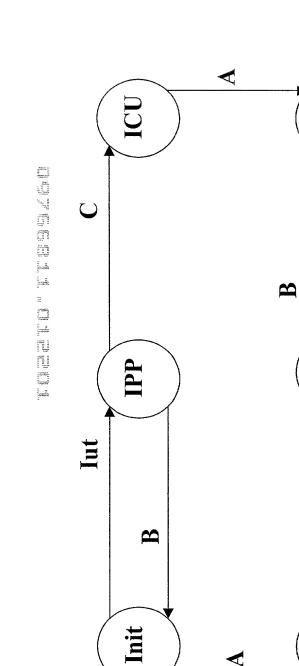
Figure 25(d)

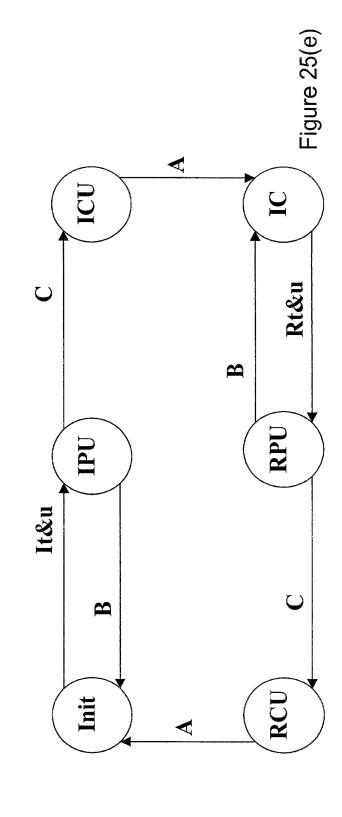
Rut

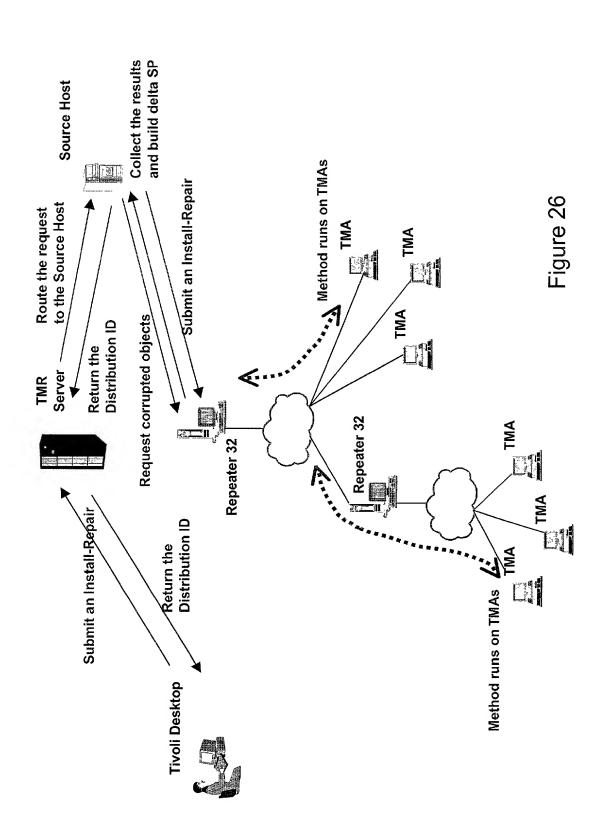
RPP

C

RCU







```
arguments = "USE $(freedrive_01) $(remote_name)"
                                                                                                                                                                   ## Run the setup to perform the installation
                                                                                                                                                                                                                                          = $(freedrive_01)/setup.exe
                                                                                                                                                                                                                                                                                                                                                                                                            = $(system_dir)/NET.EXE
                                                                    = $(system_dir)/NET.EXE
                                                                                                                                                                                                                                                                                                                                                                                                                                    arguments = "$(freedrive_01) /d"
                                                                                                                                                                                                                                                                                                                                         ## U-mount the image directory
## Mount the image directory
                                                                                                                                                                                                                                                                 arguments = "/Q1/B1"
                                                                                                                                                                                             execute mssetup program
                                                                                                                                                                                                                                                                                                                                                                 execute_user_program
                          execute_user_program
                                                                                                                                                                                                                                                                                                                                                                                     during_install
                                                                                                                                                                                                                   during_install
                                                during_install
                                                                                                                                                                                                                                              name
                                                                         name
                                                                                                                                                                                                                                                                                                                                                                                                                  name
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    :
```

Figure 27